

FIG. 1A

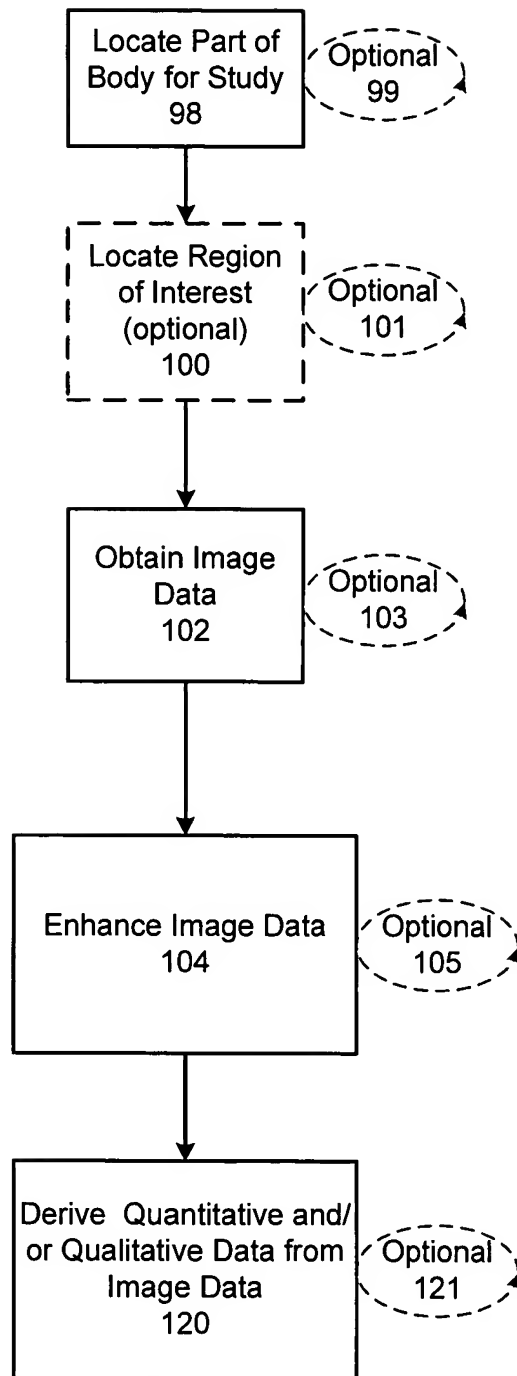


FIG. 1B

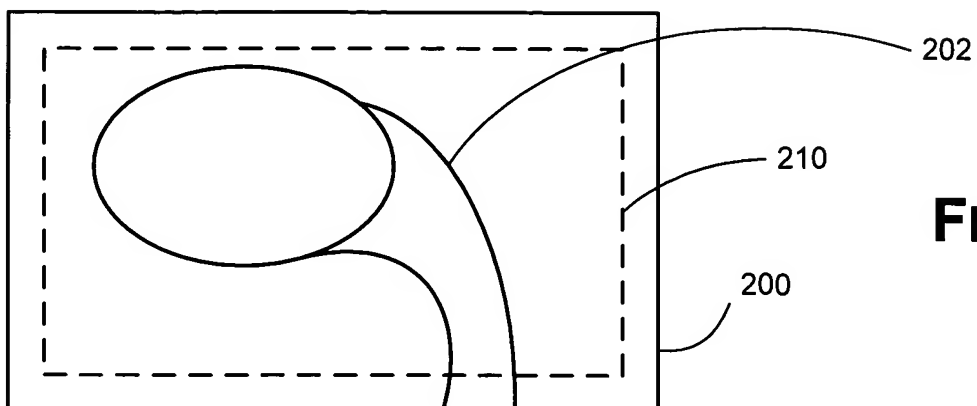


FIG. 2A

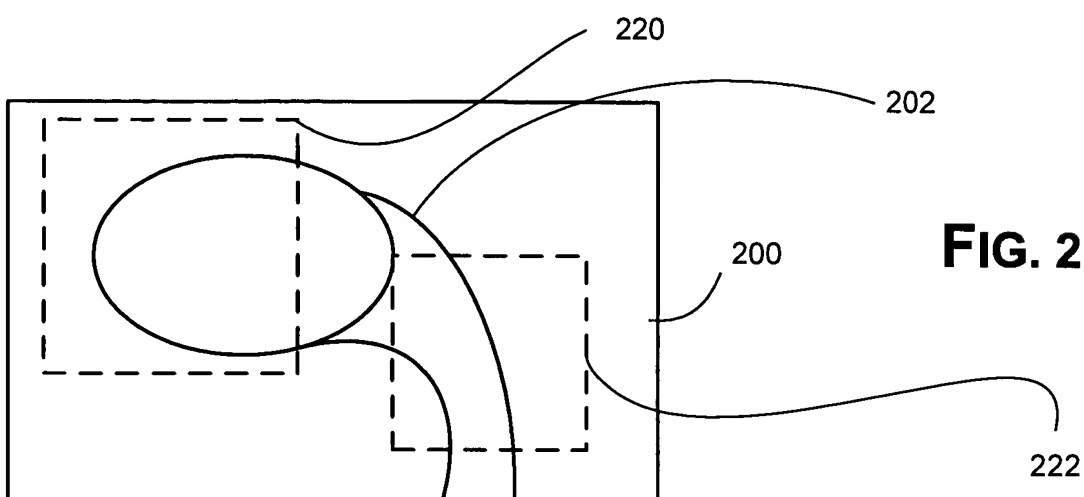


FIG. 2B

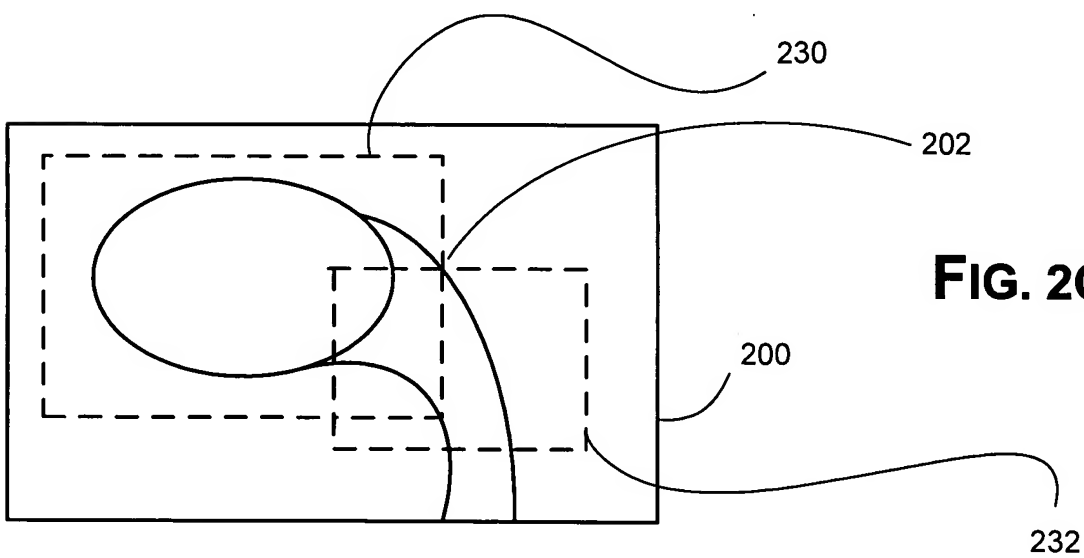


FIG. 2C

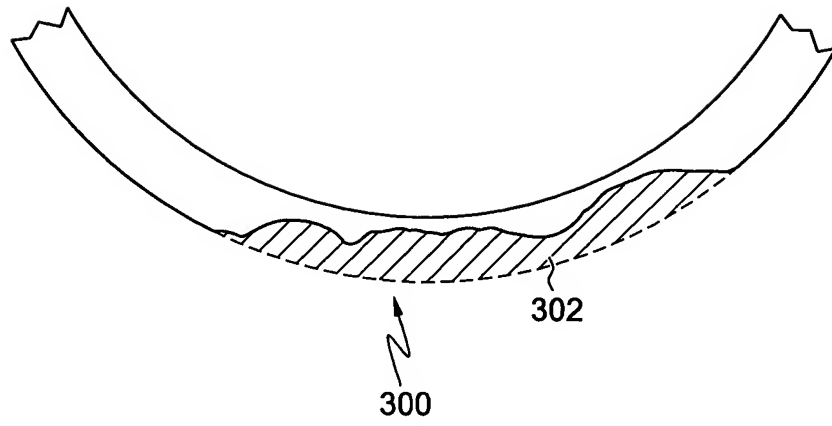


FIG. 3A

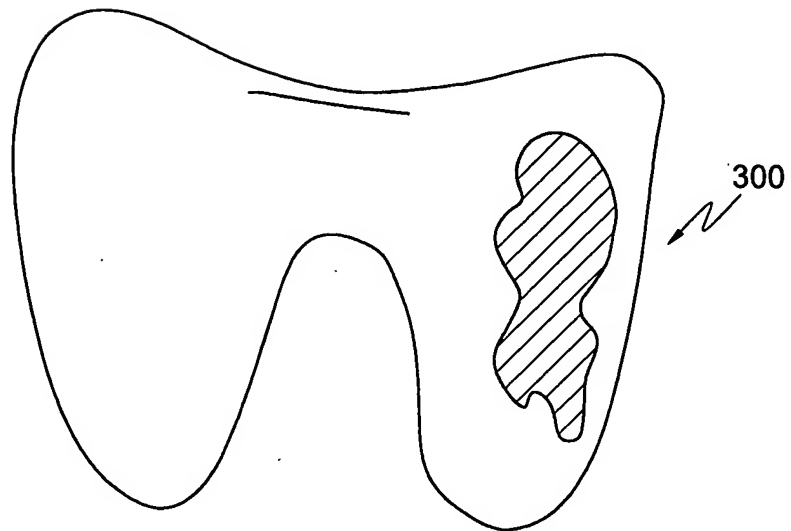


FIG. 3B

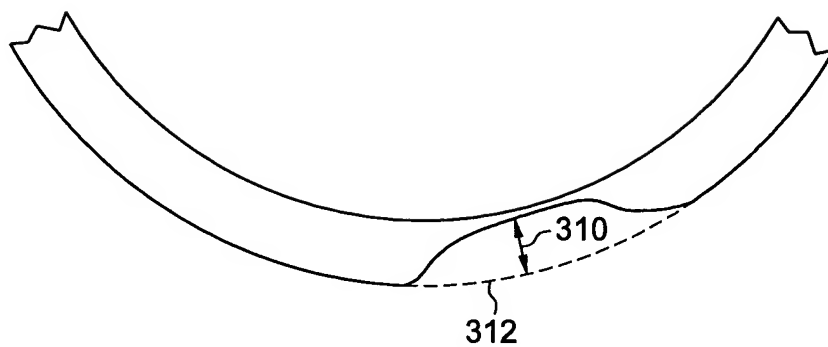


FIG. 3C

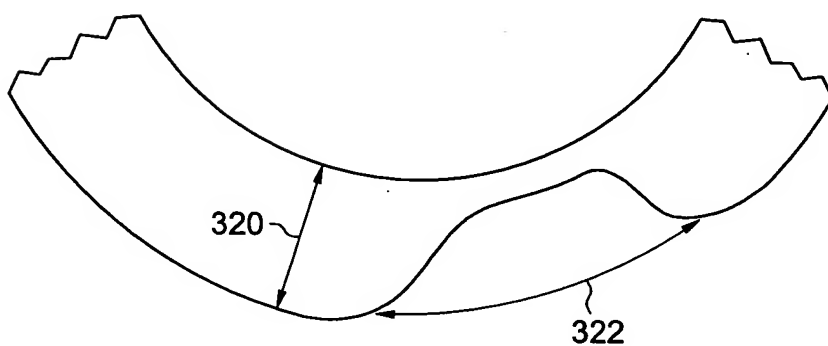


FIG. 3D

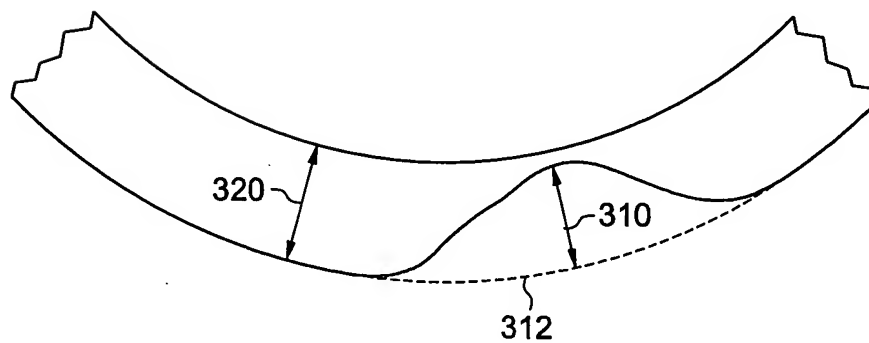


FIG. 3E

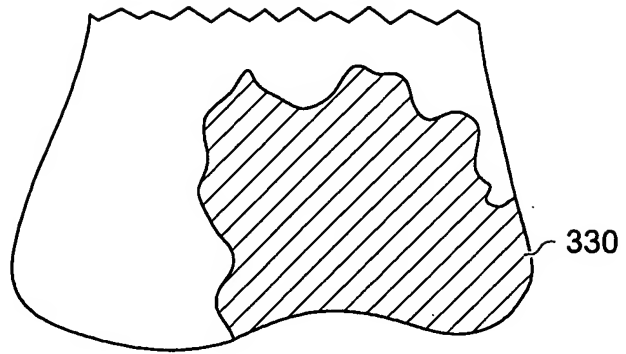


FIG. 3F

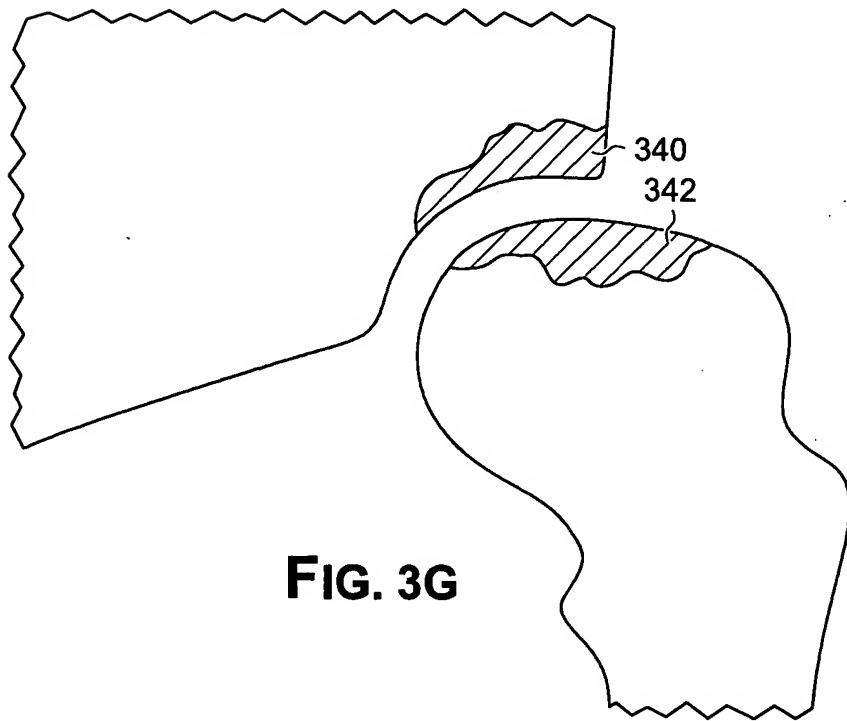
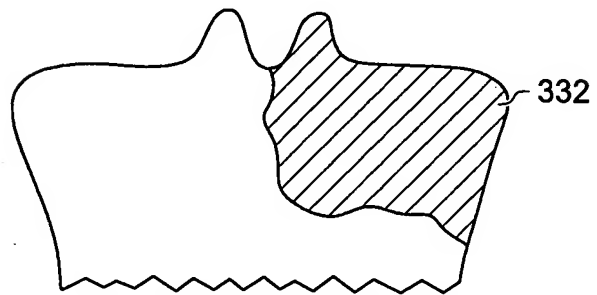


FIG. 3G

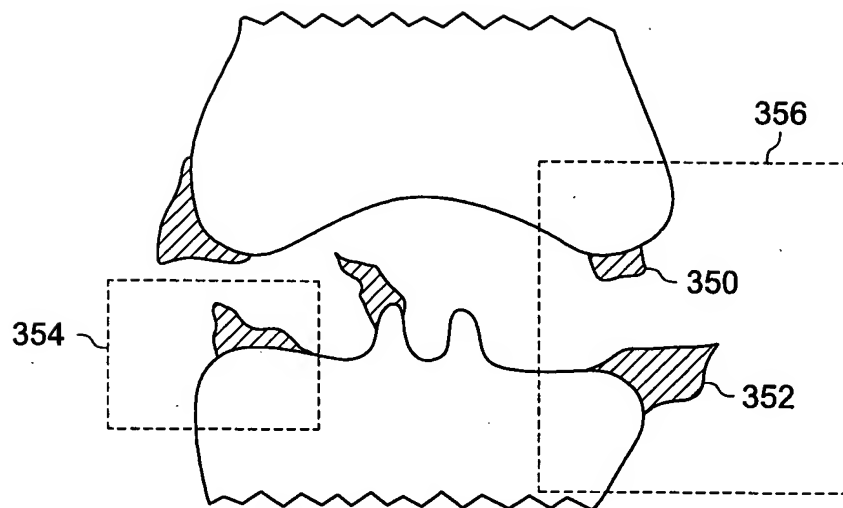


FIG. 3H

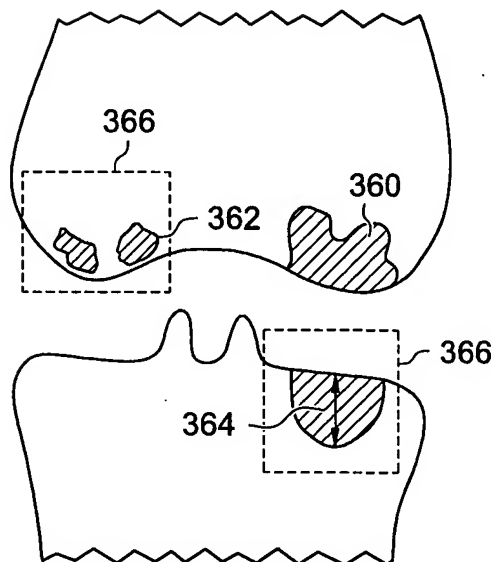


FIG. 3I

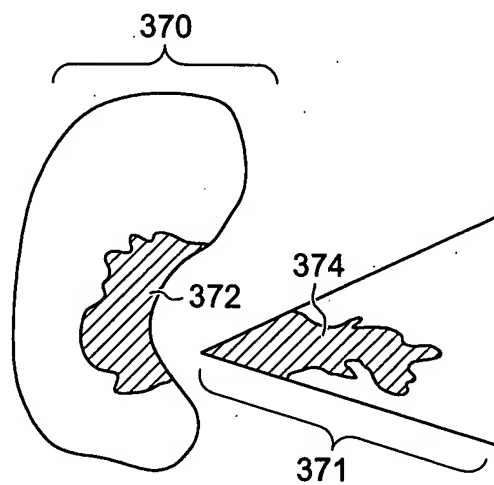


FIG. 3J

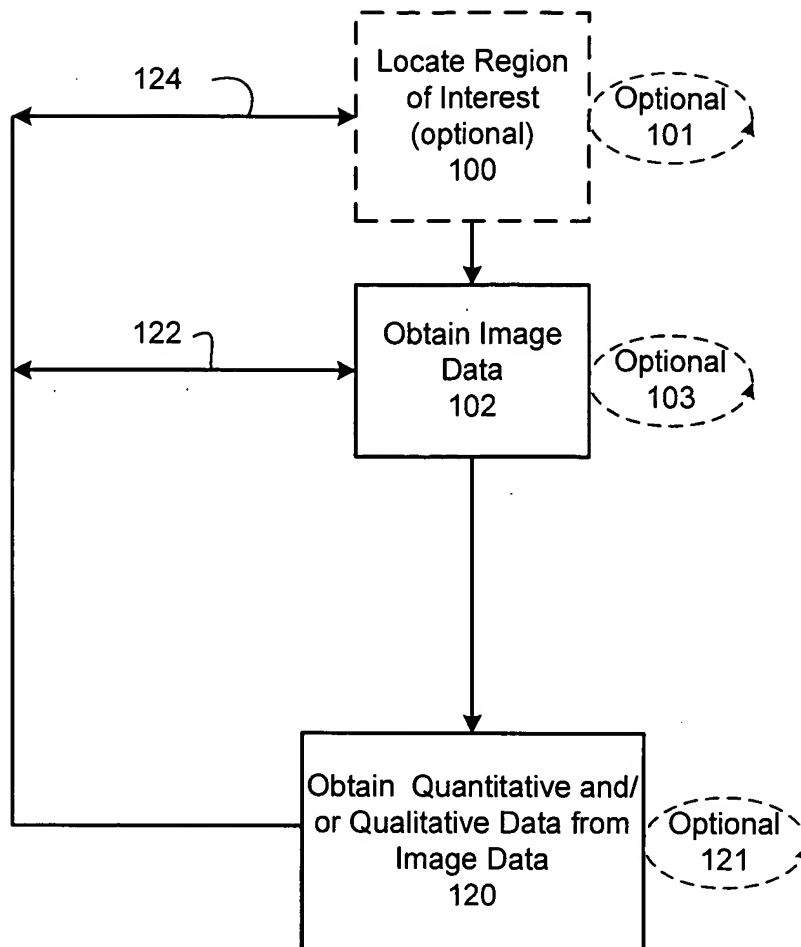


FIG. 4A

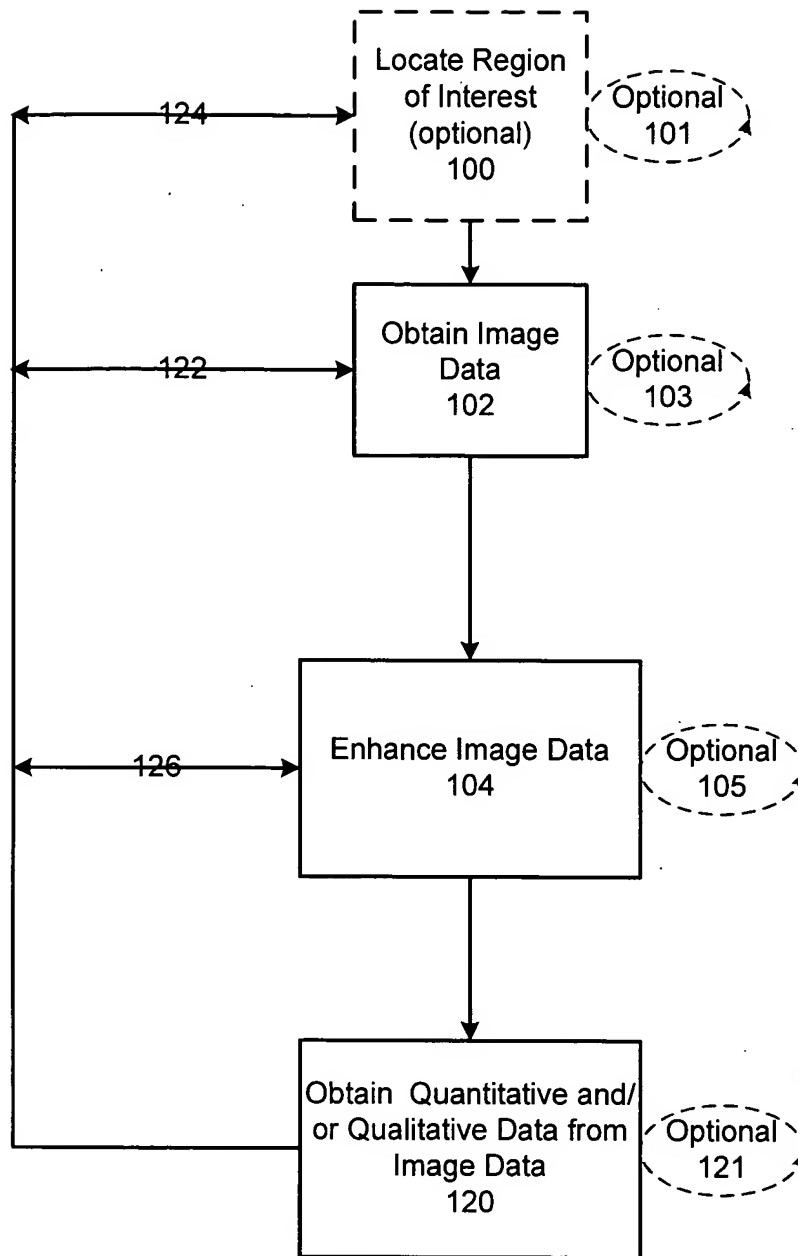


FIG. 4B

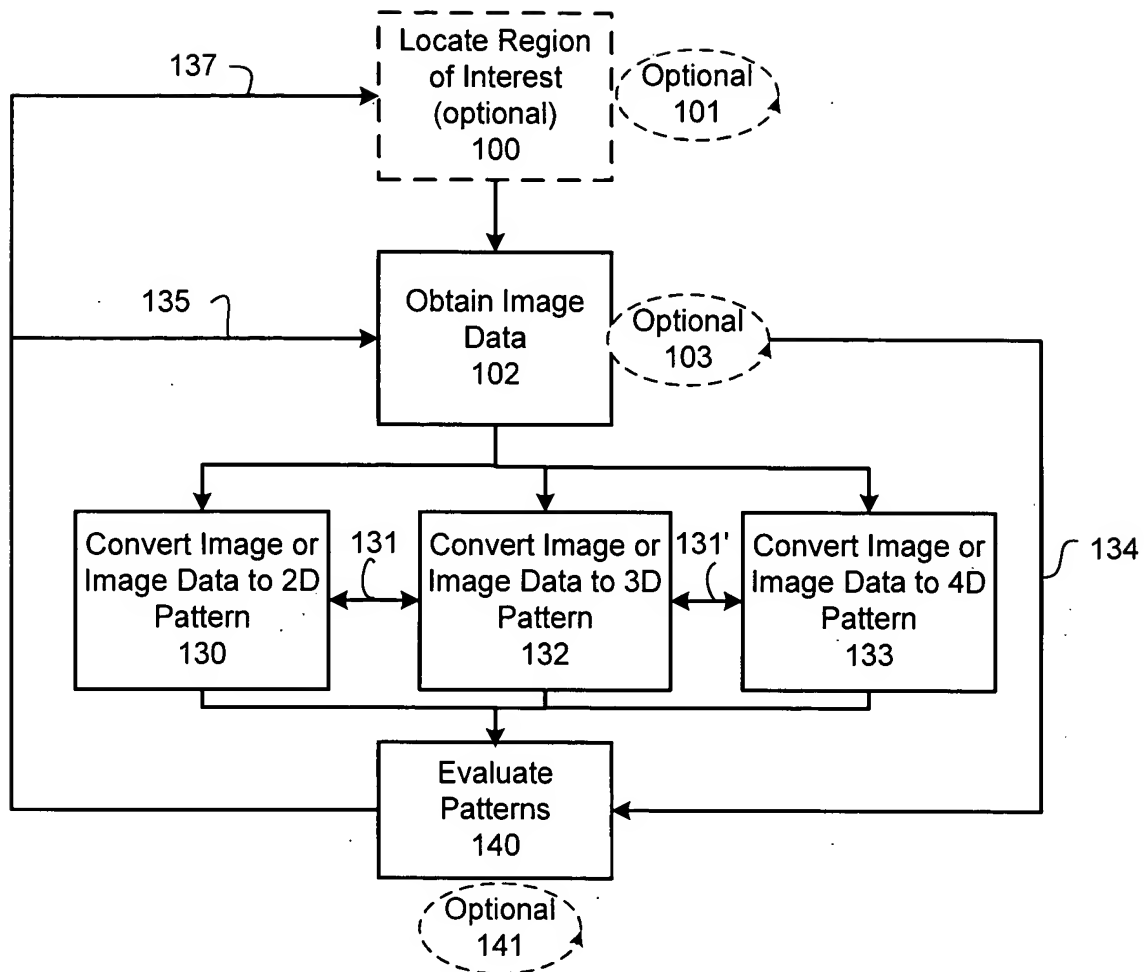


FIG. 5A

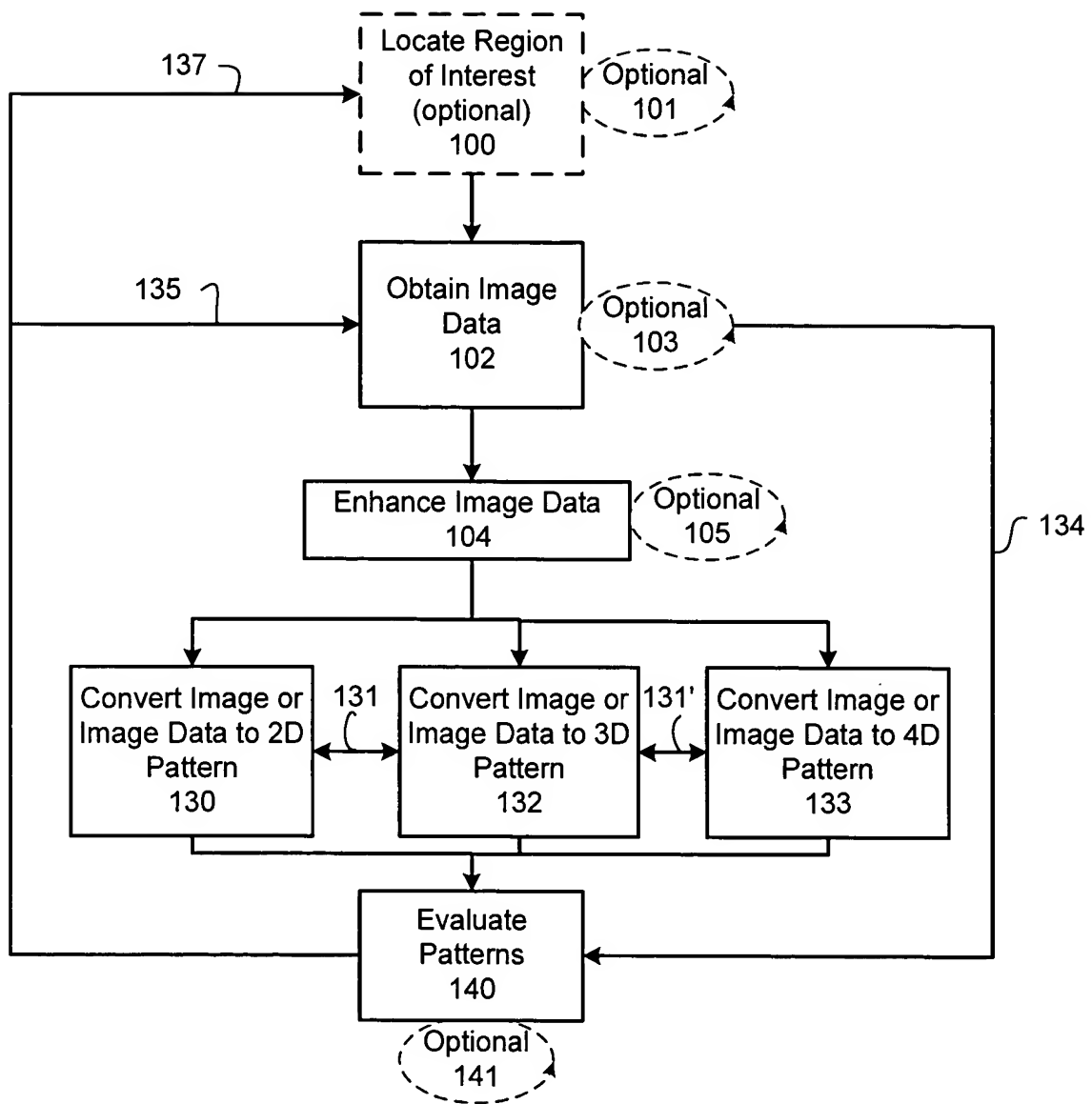


FIG. 5B

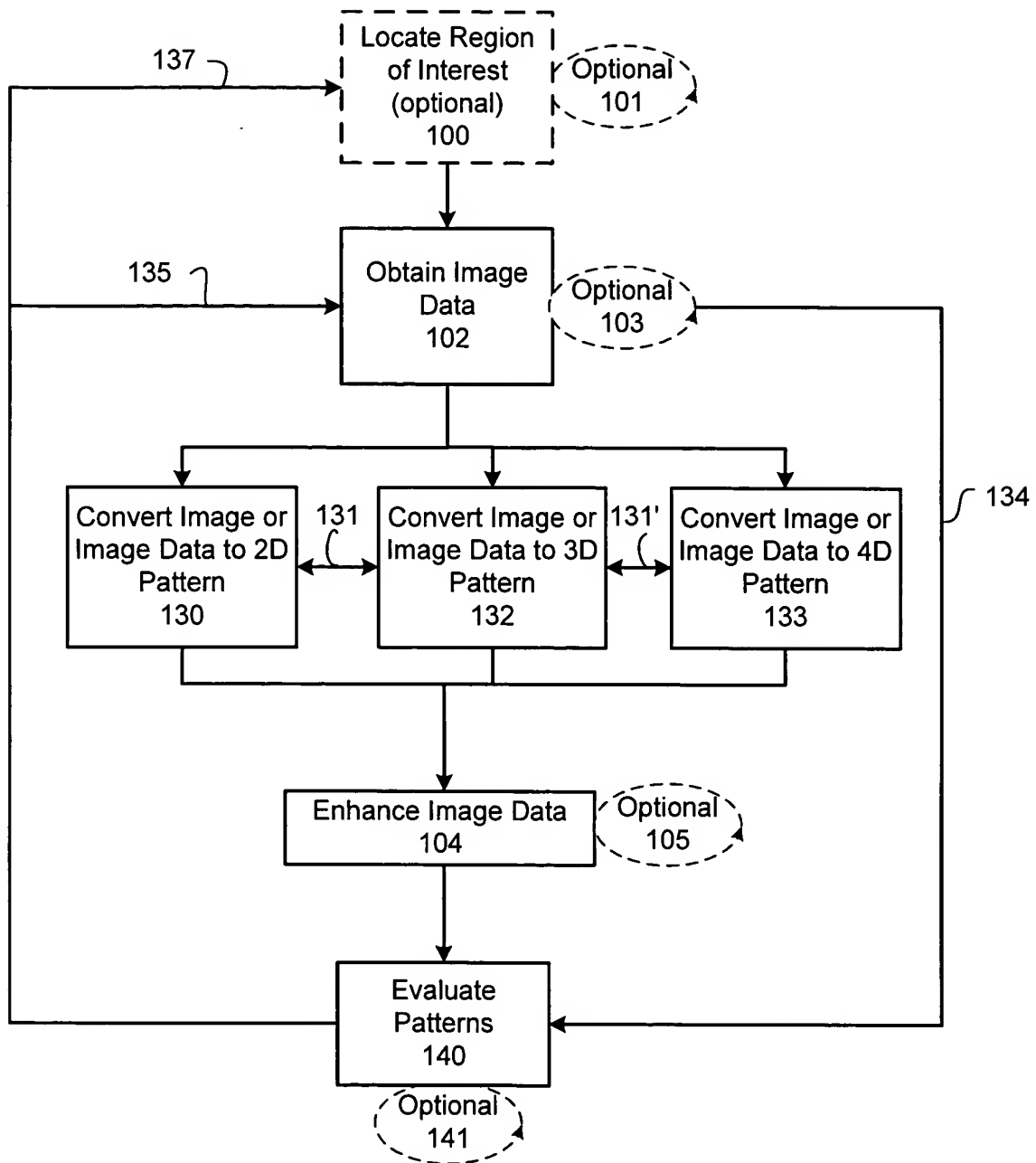


FIG. 5C

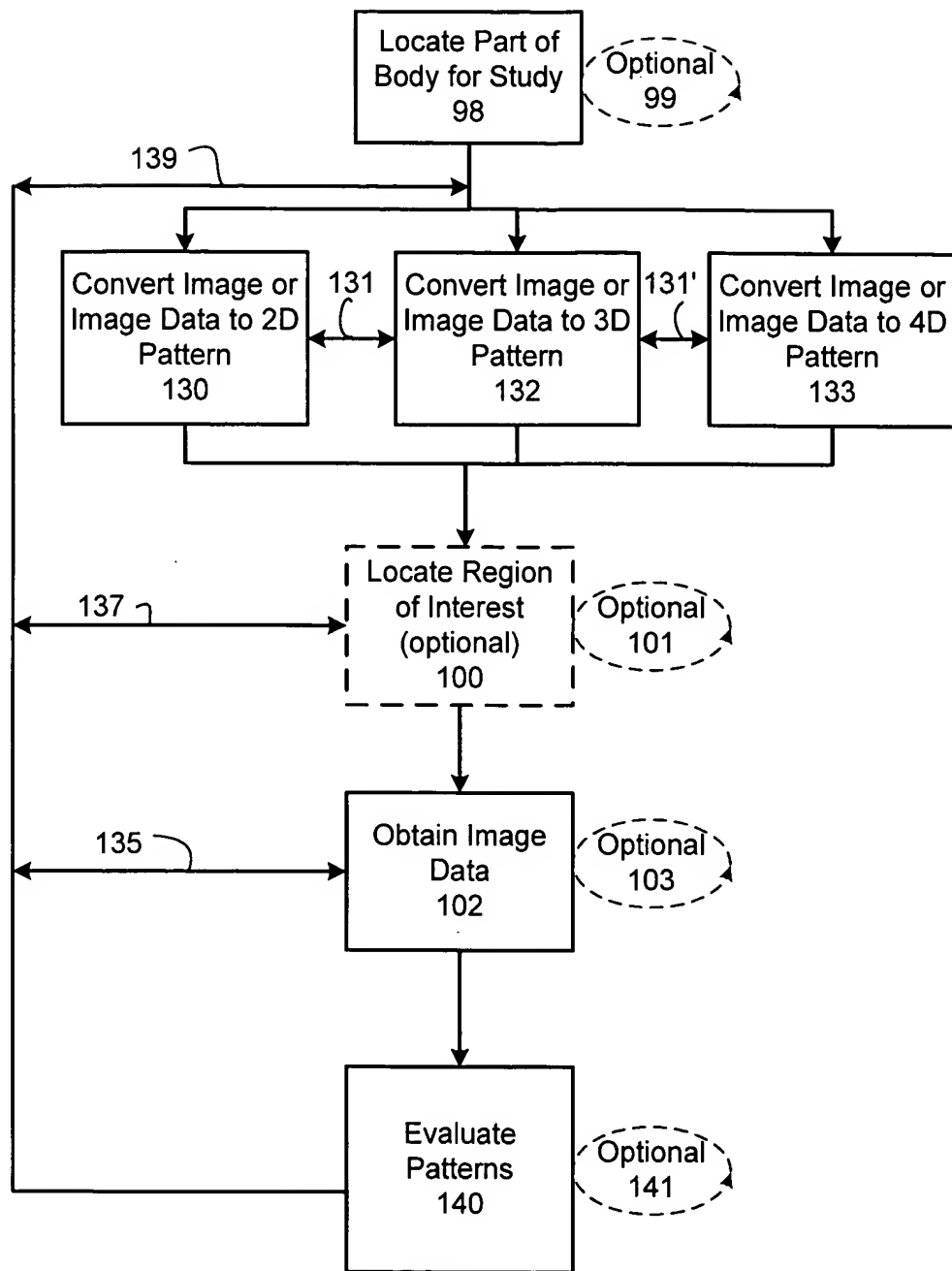


FIG. 5D

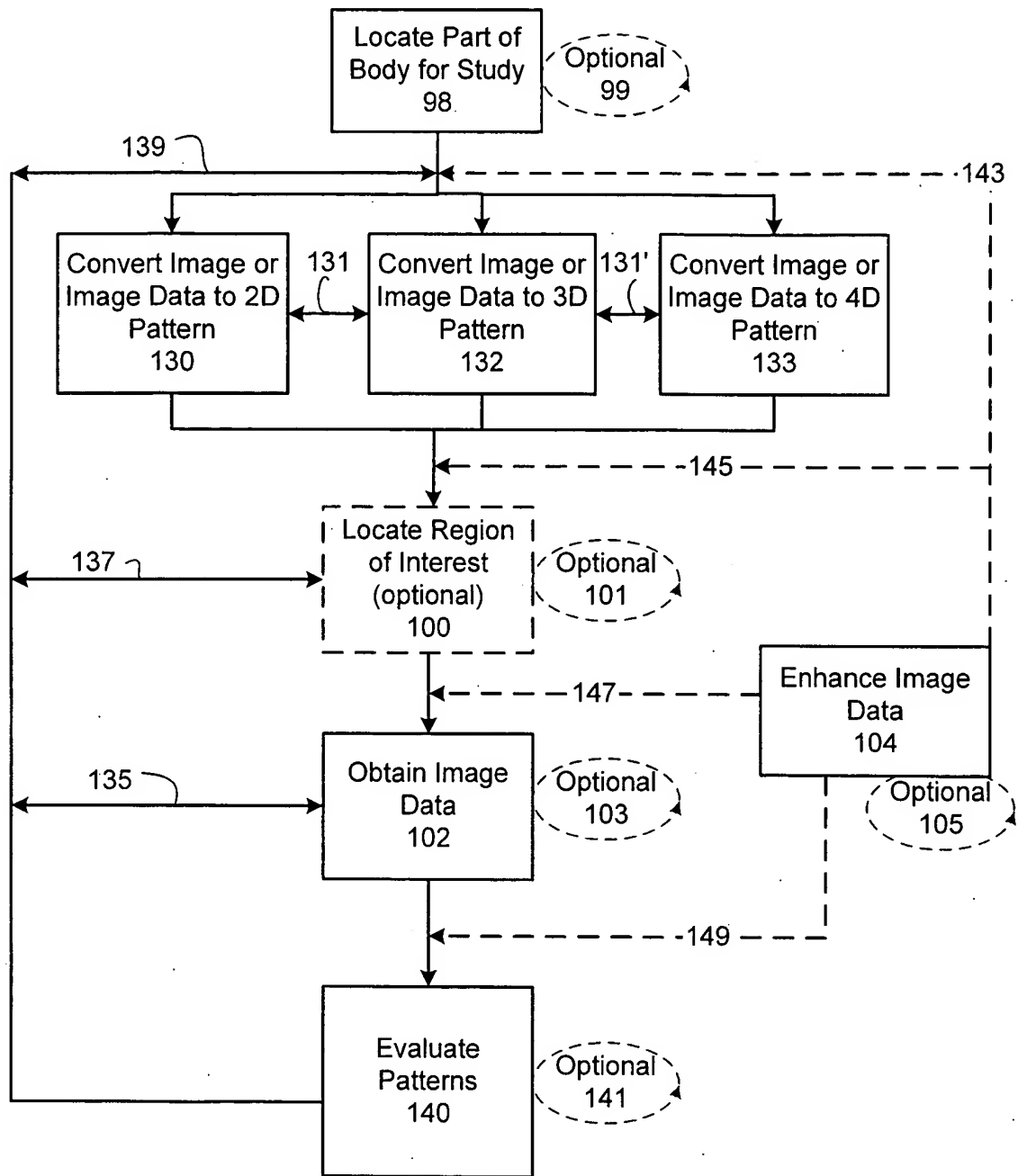


FIG. 5E

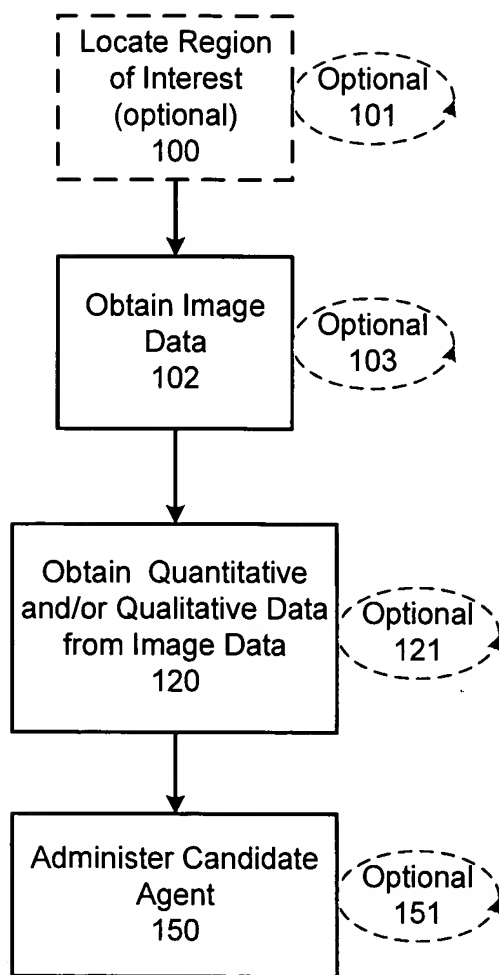


FIG. 6A

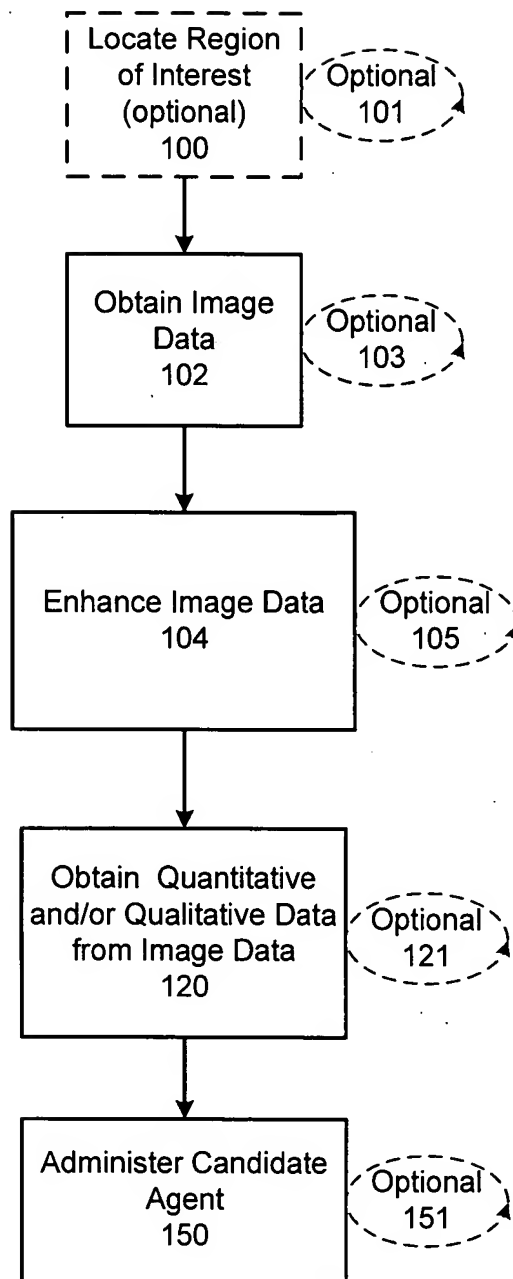


FIG. 6B

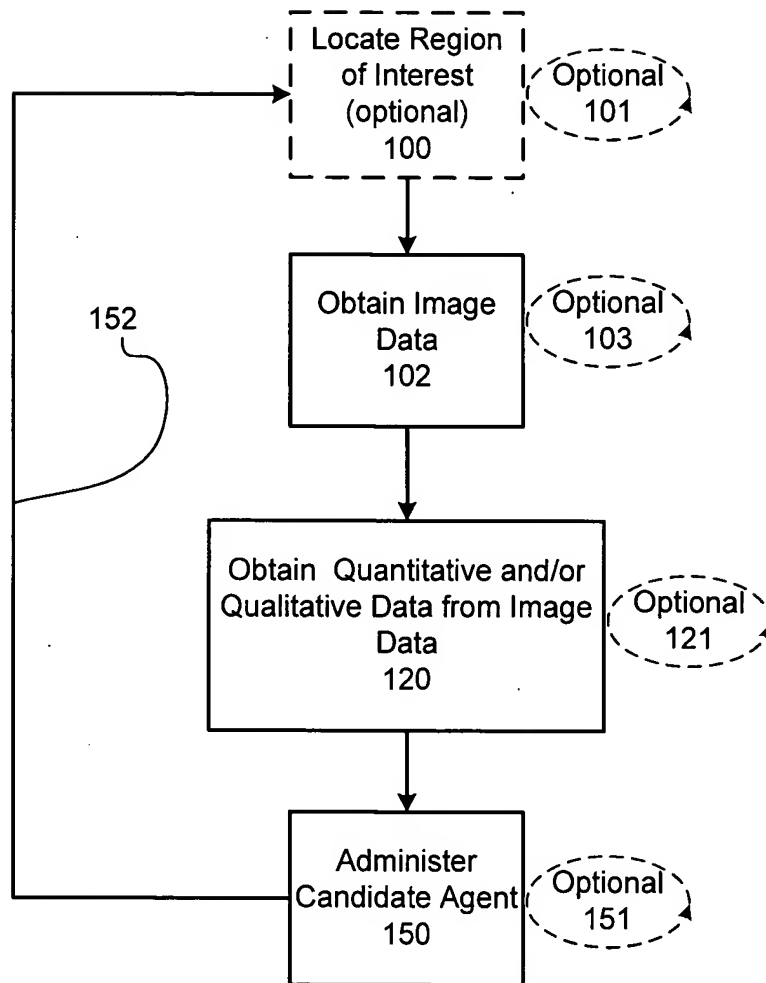


FIG. 6C

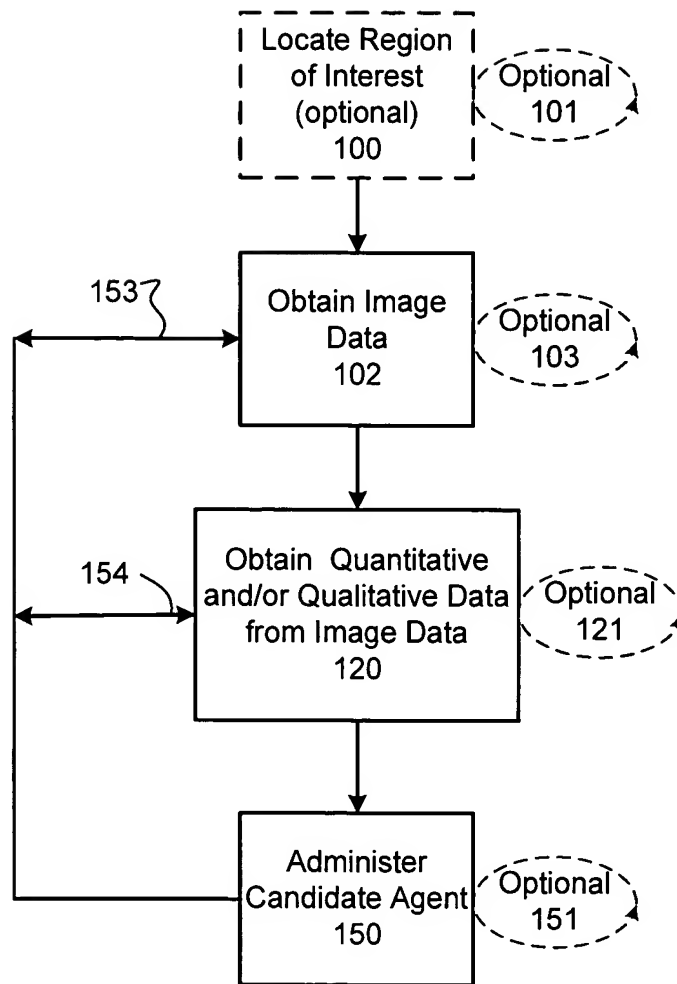


FIG. 6D

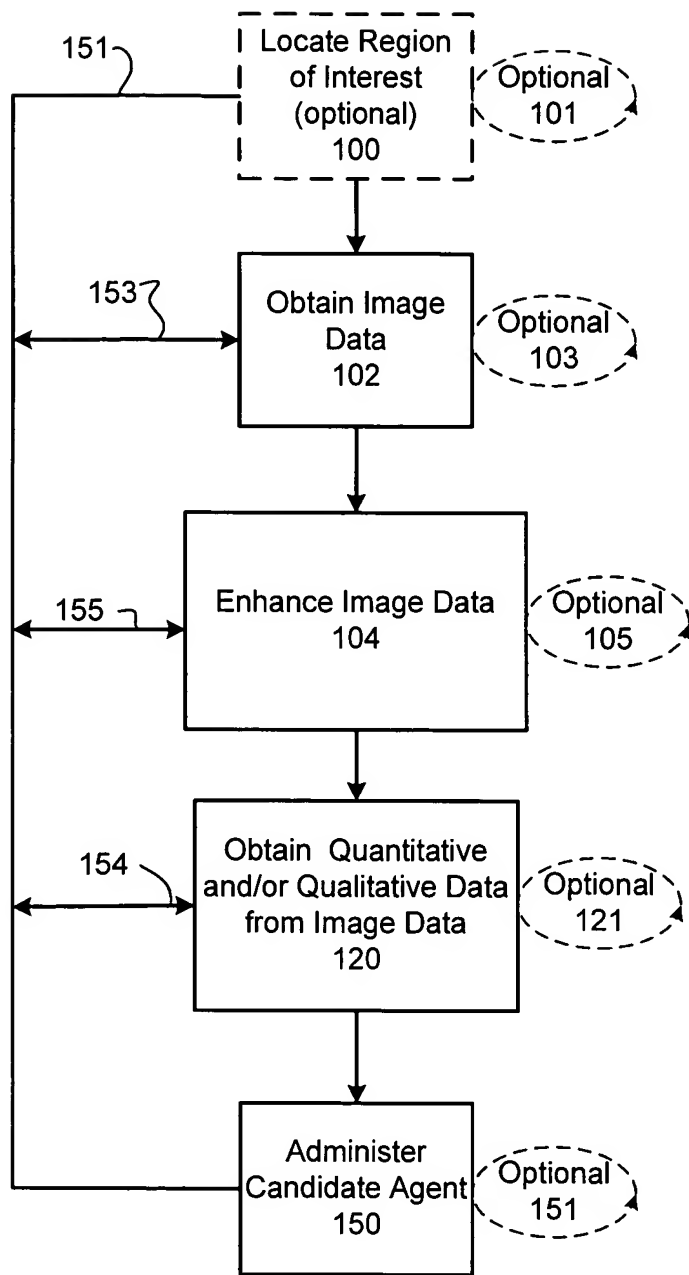


FIG. 6E

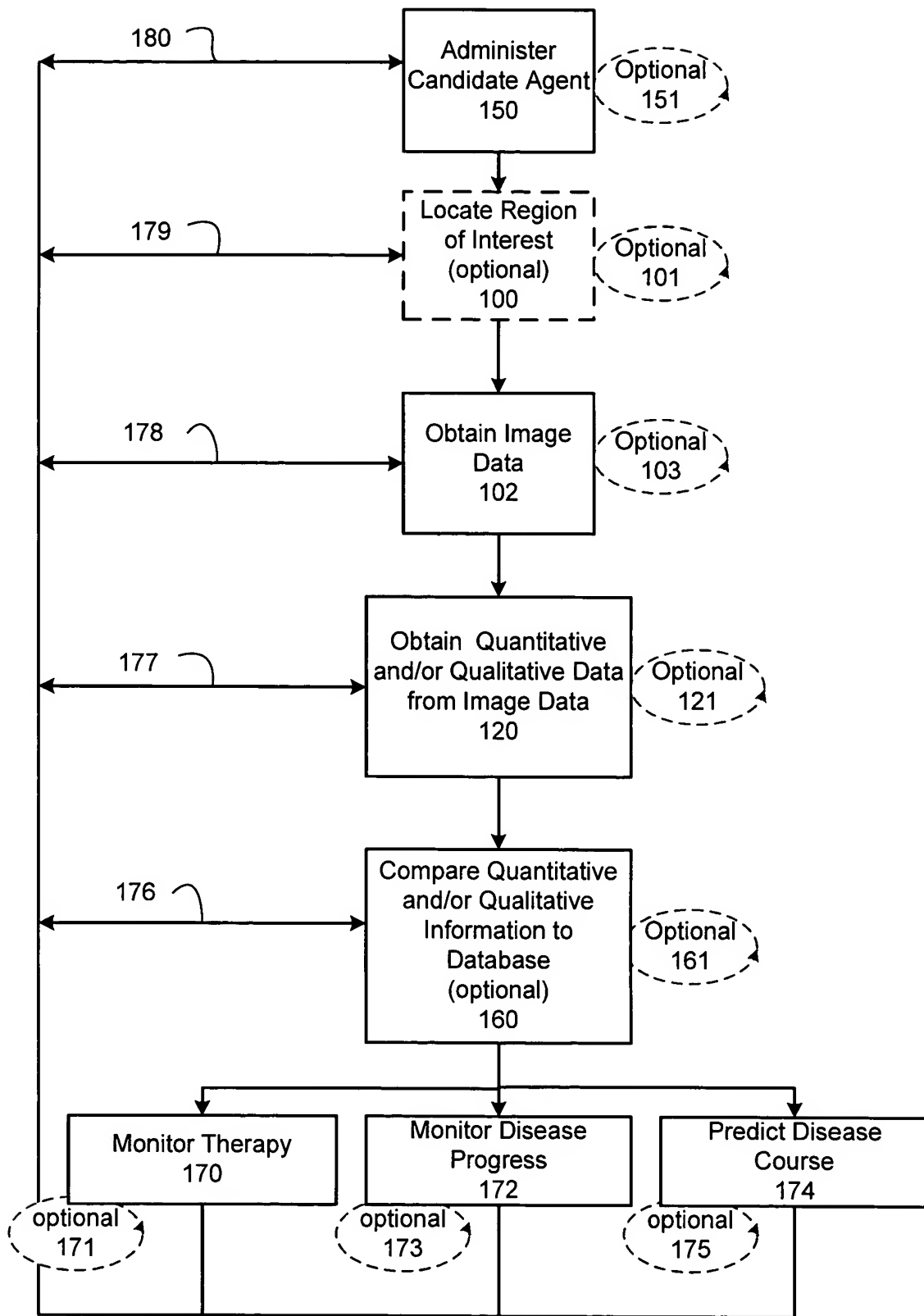


FIG. 7A

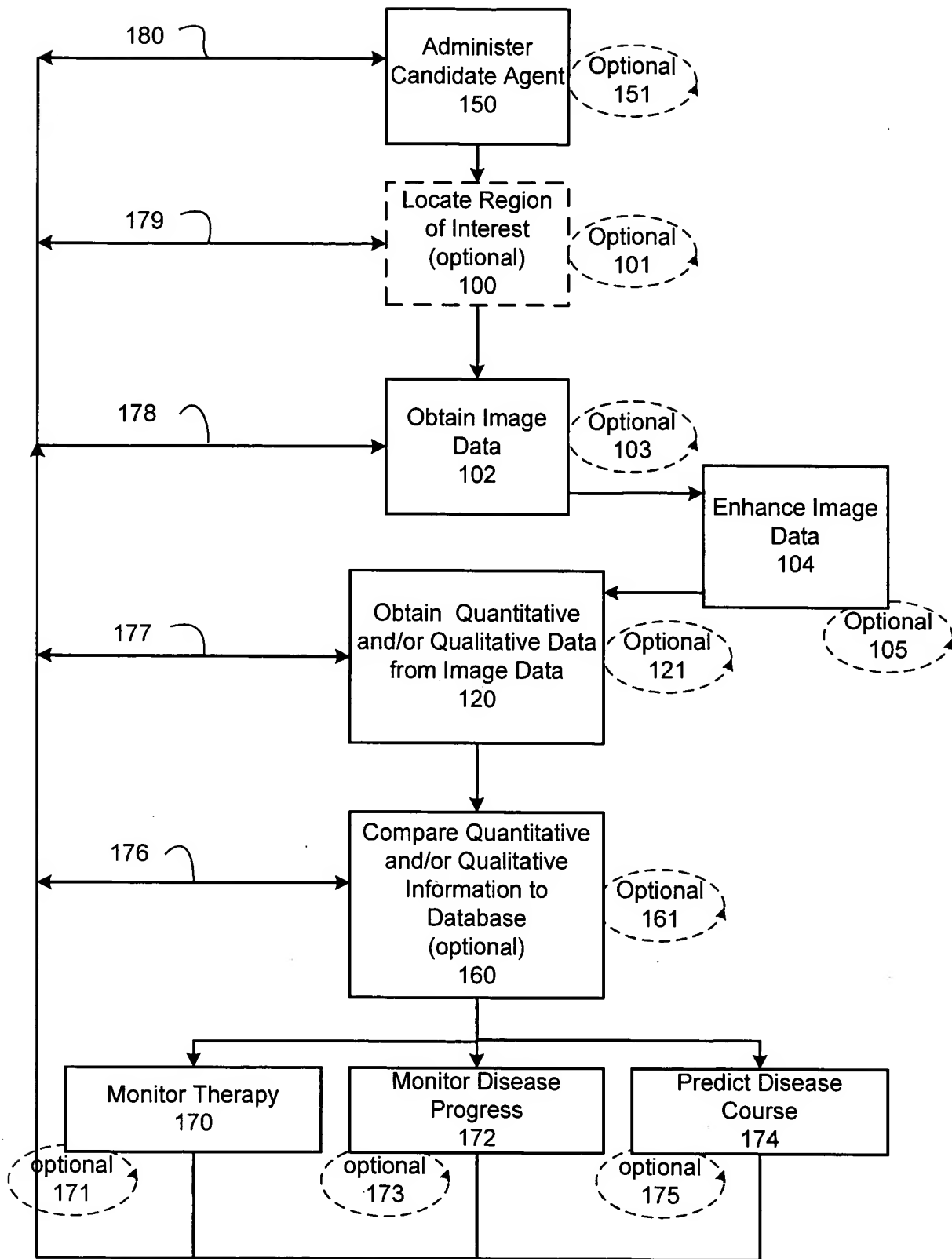


FIG. 7B

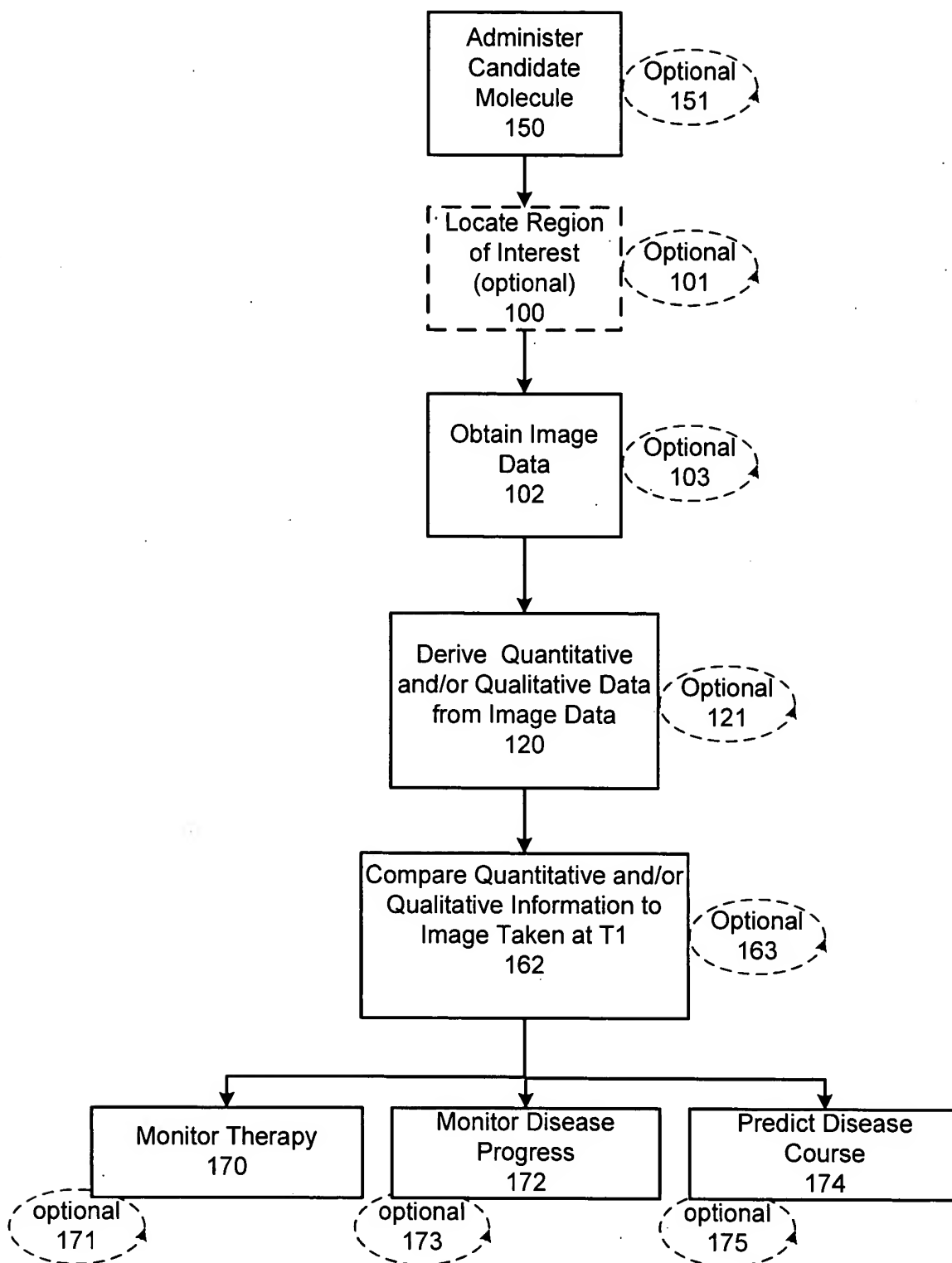


FIG. 7C

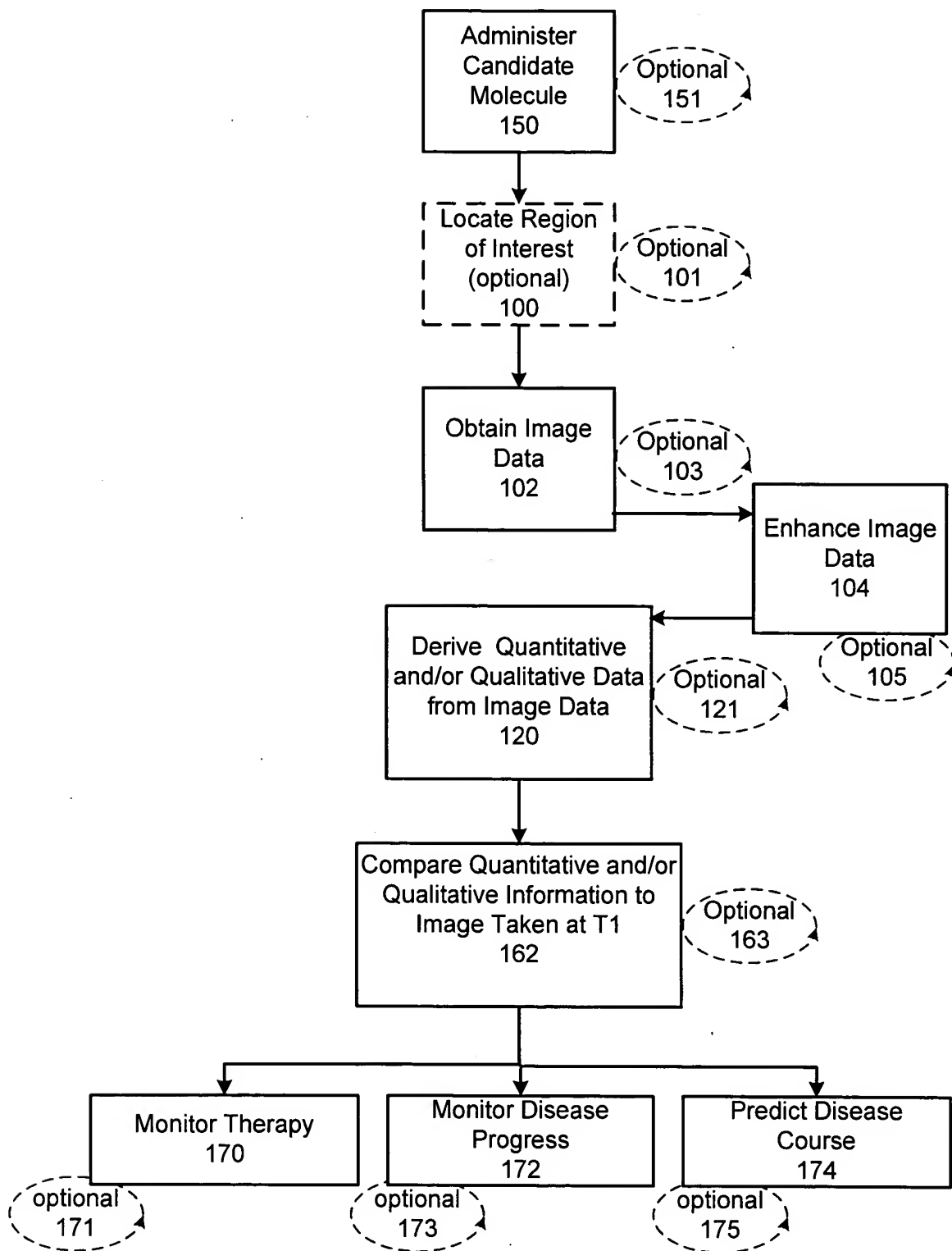


FIG. 7D

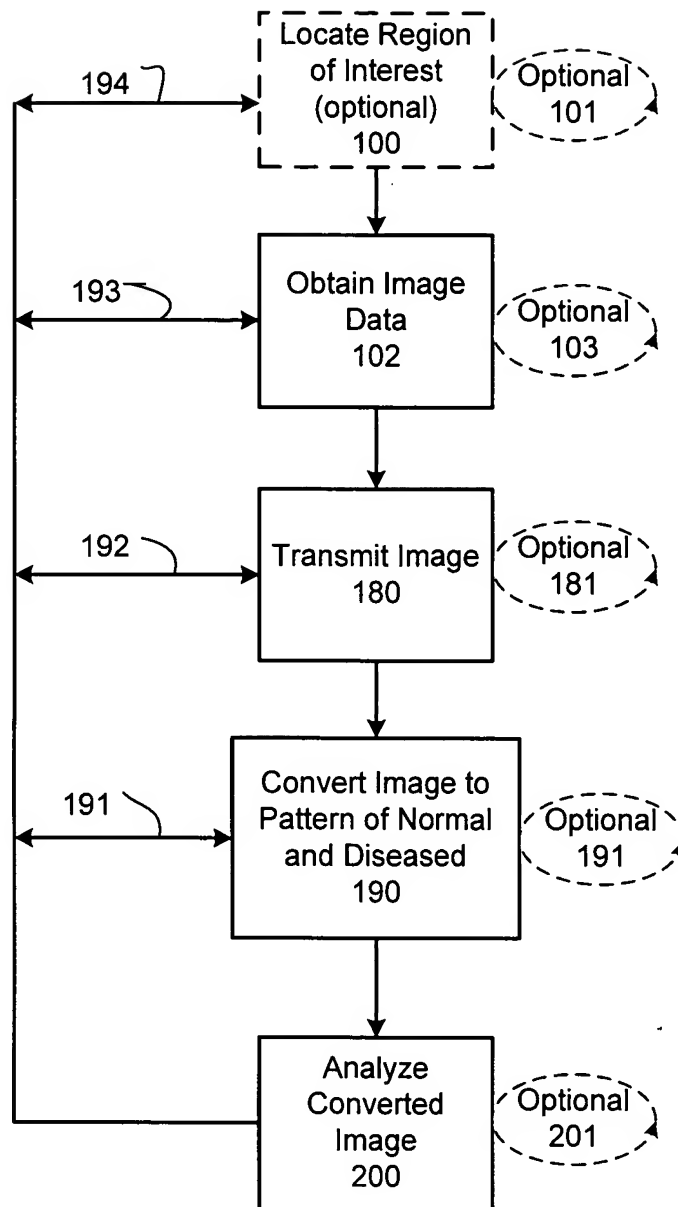


FIG. 8A

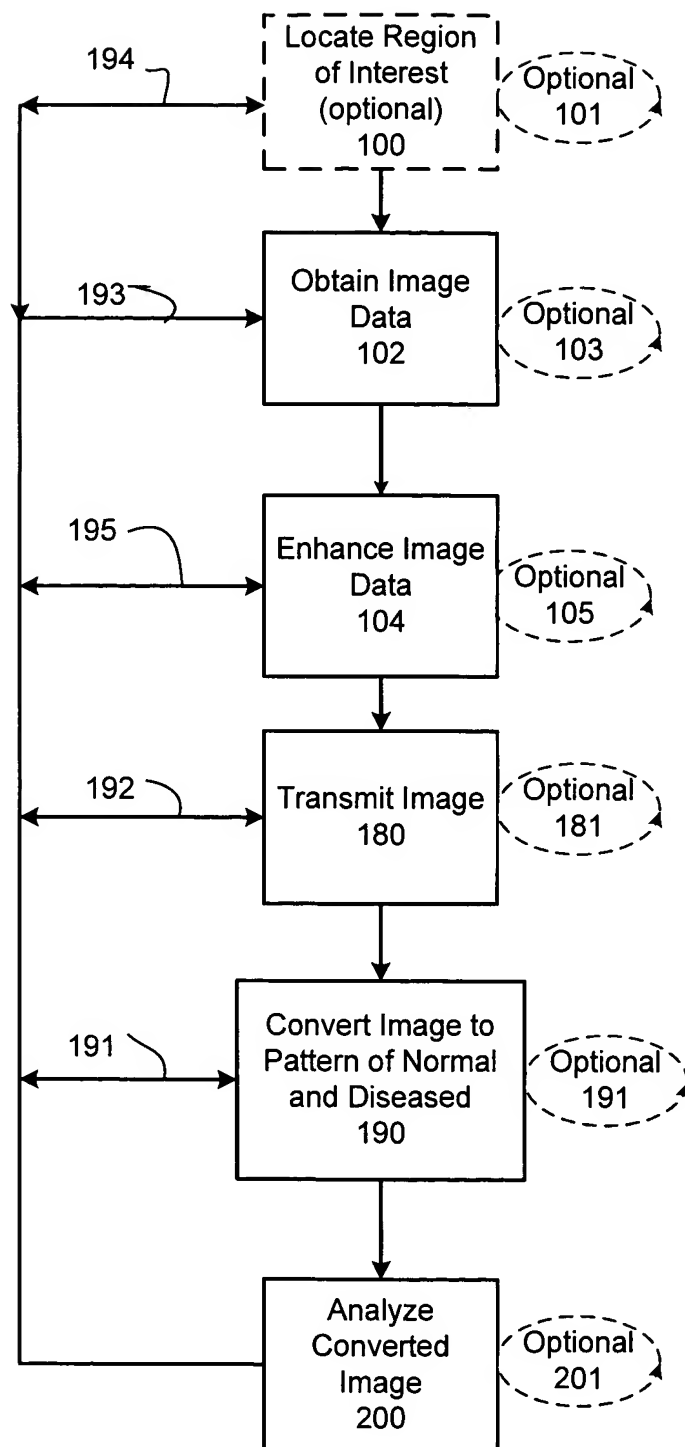


FIG. 8B

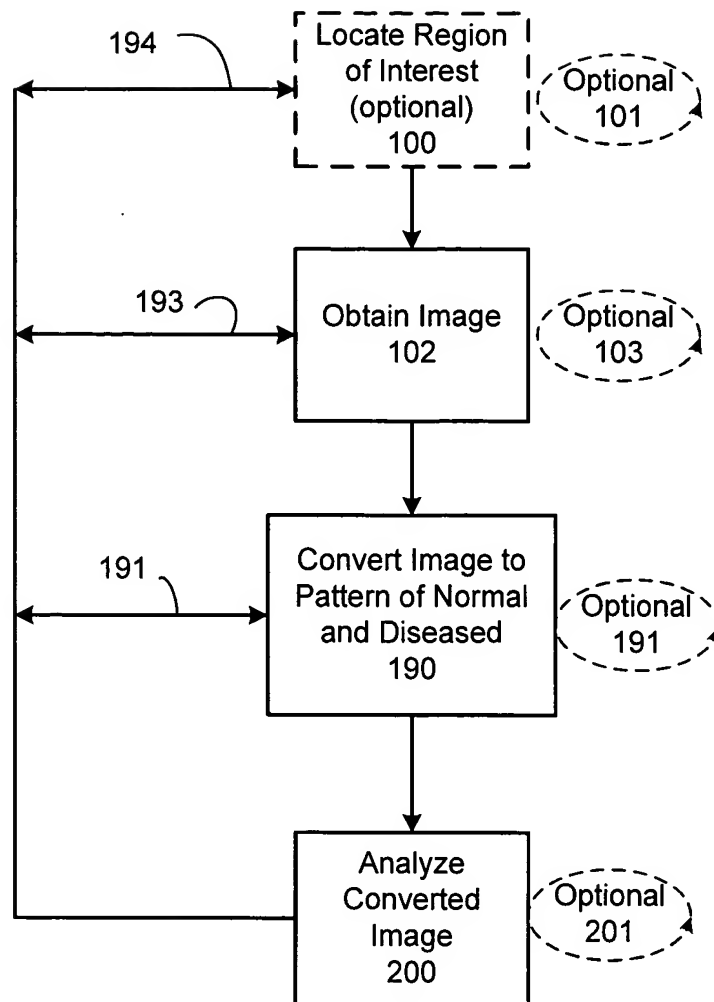


FIG. 8C

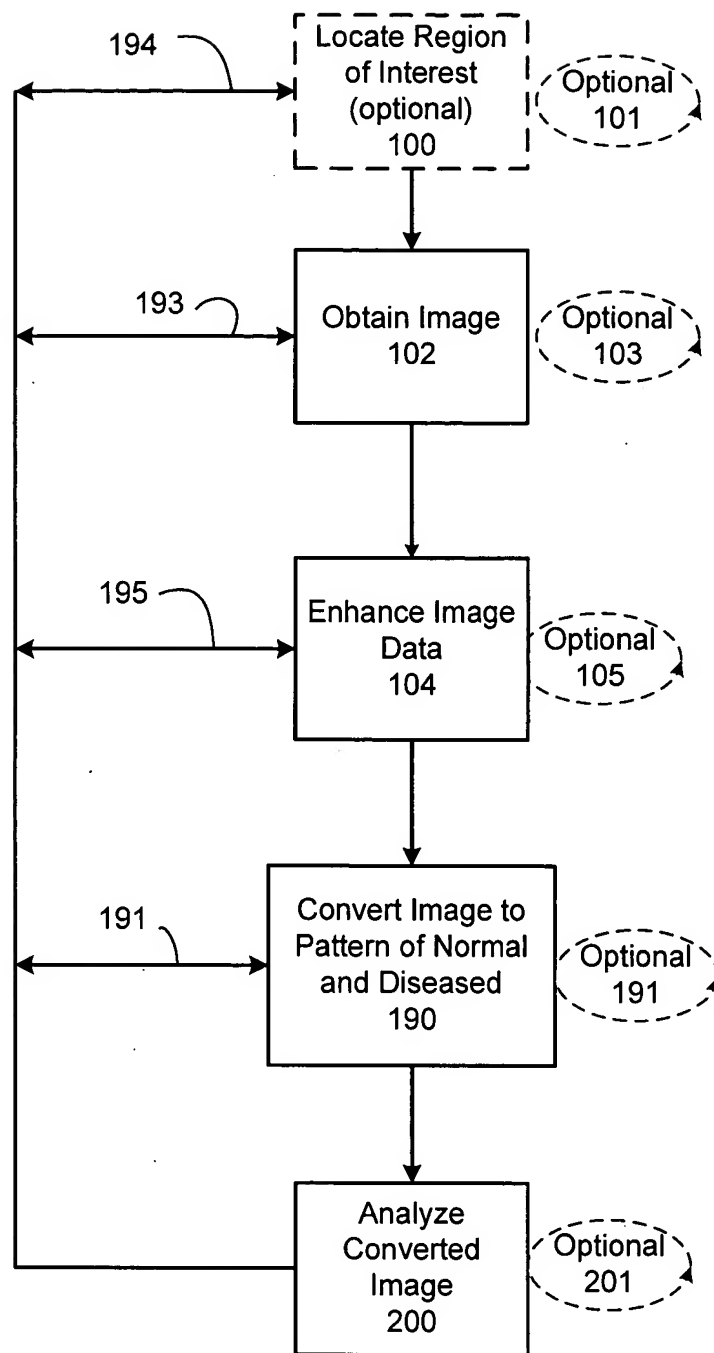


FIG. 8D

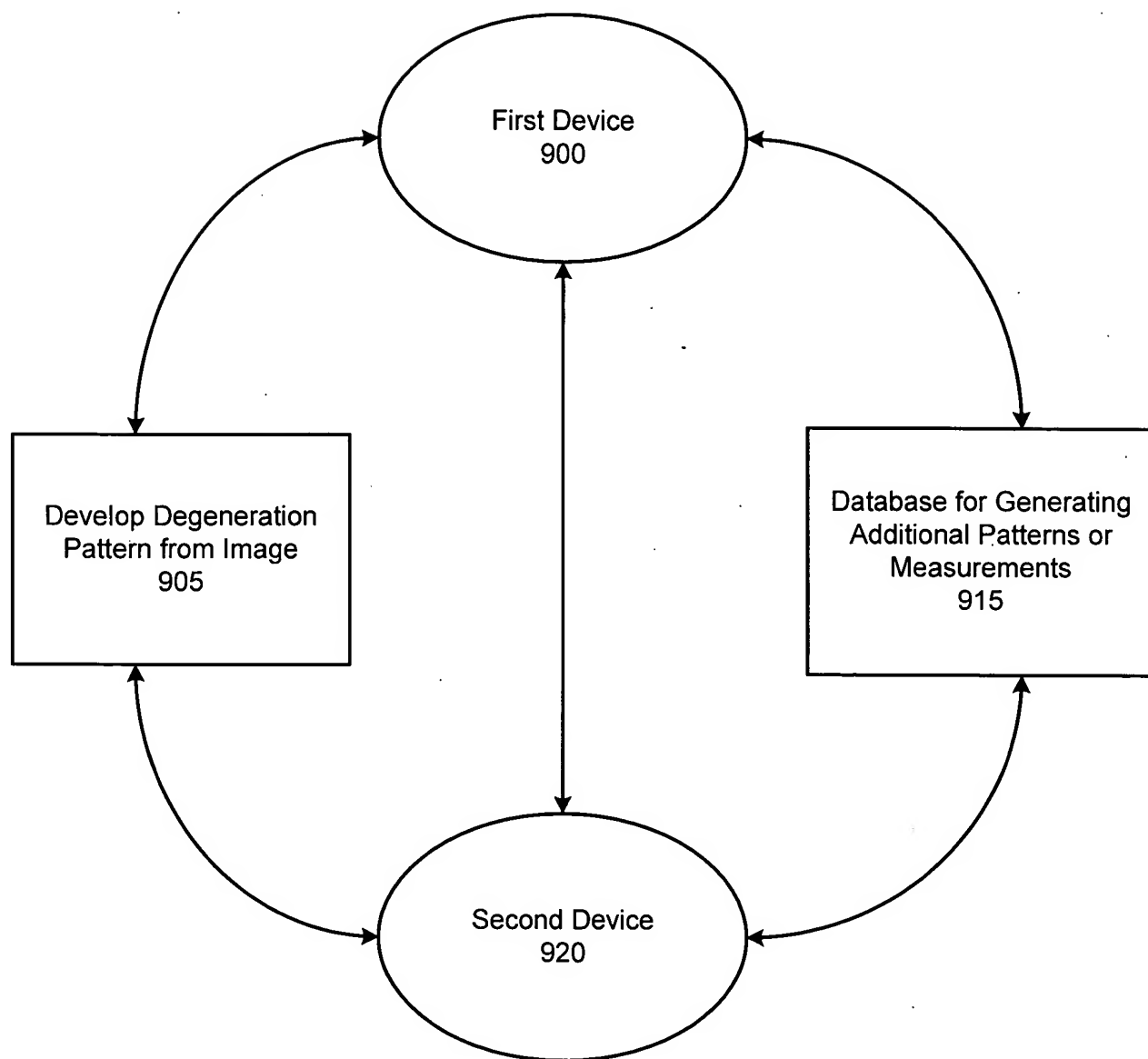


FIG. 9

Figure 10: Regions of Interest
(ROI) Analyzed

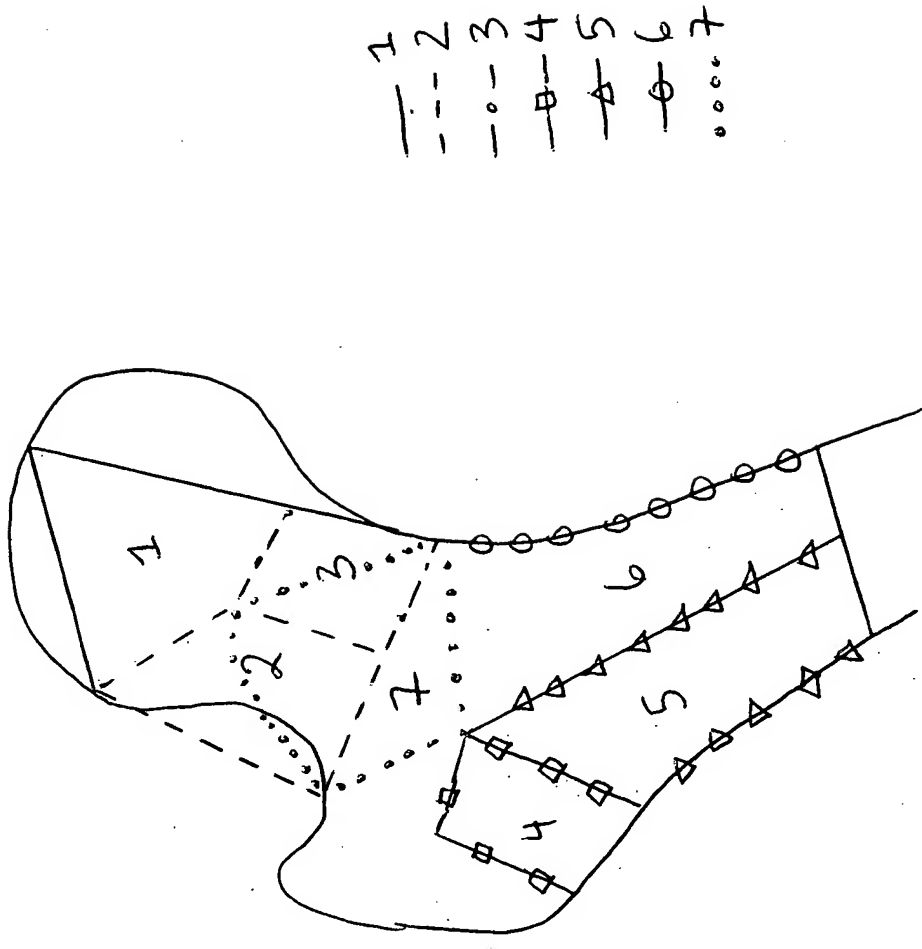


Figure 11: Biomechanical Testing of Intact Femur with Instron Instrument

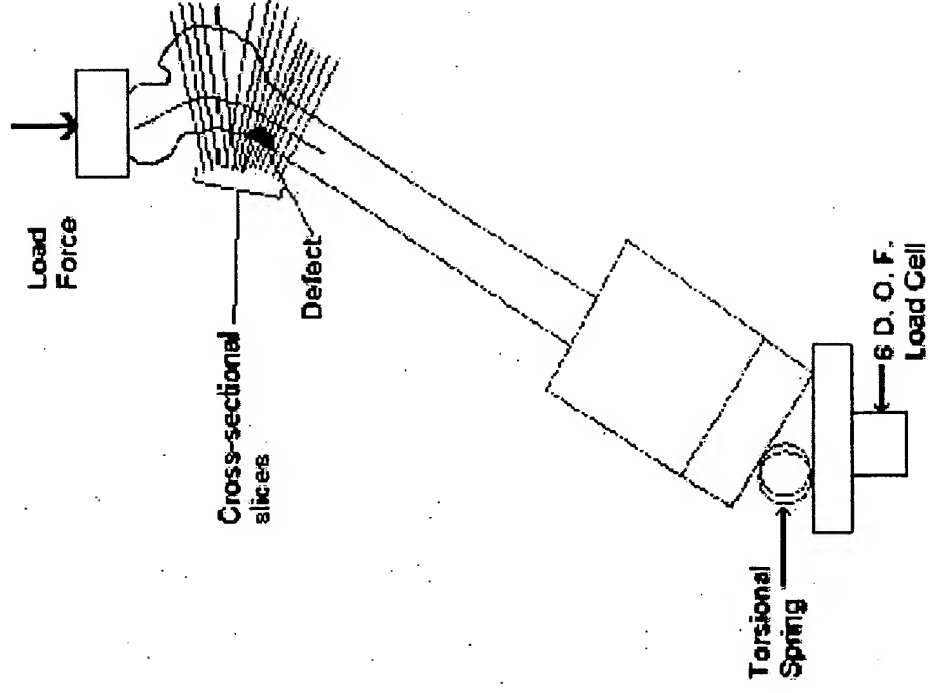
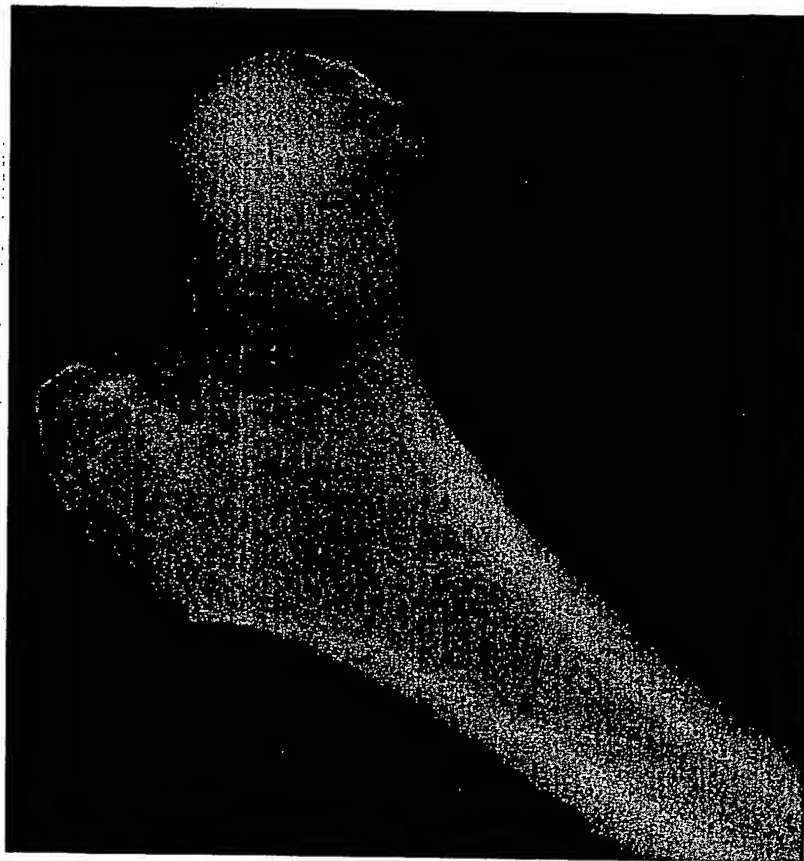


Figure 12: Example of Induced
Fracture in Fresh Cadaveric Femur

A



B

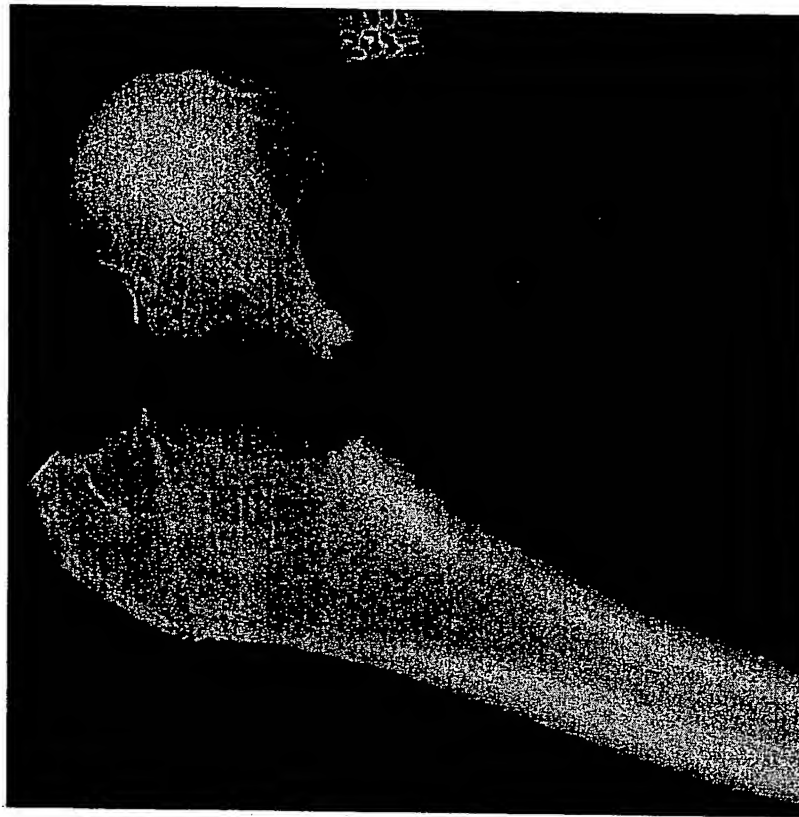
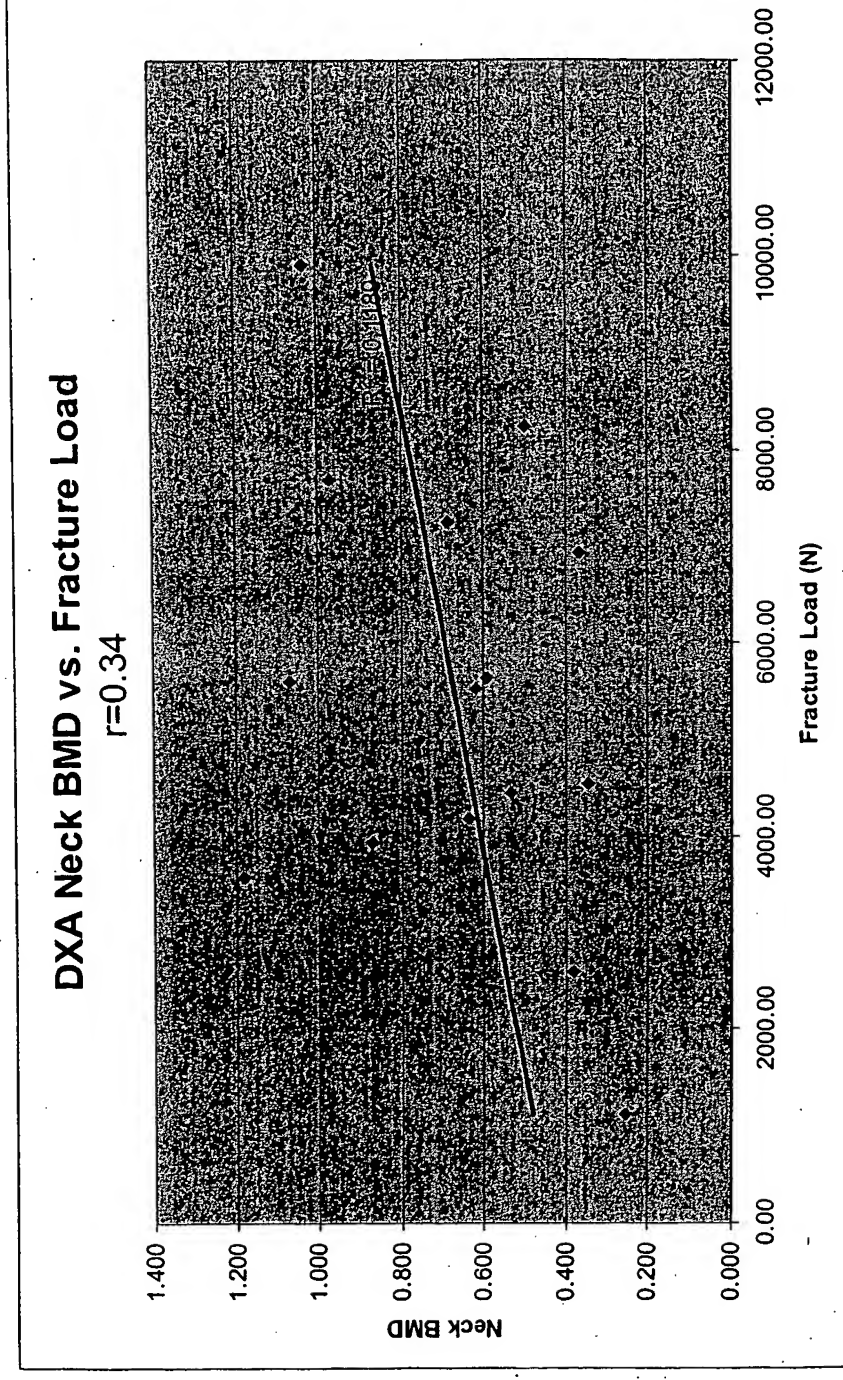


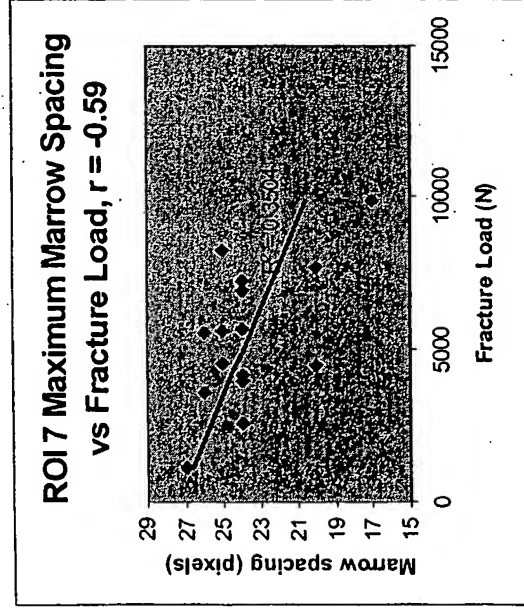
Figure 13: DXA Femoral Neck BMD vs. Biomechanical Fracture Load



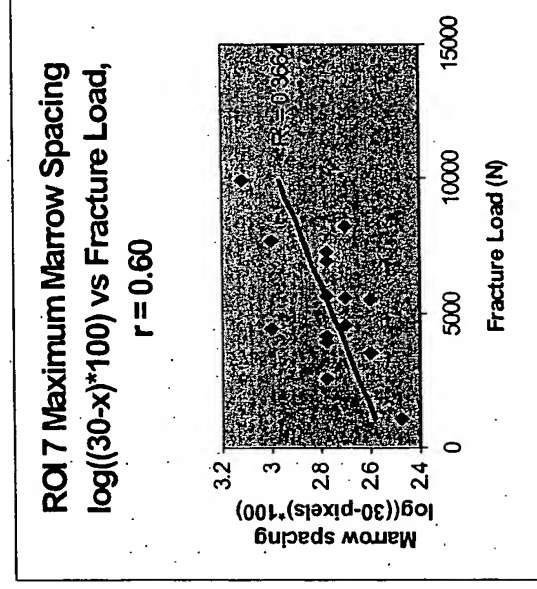
n=15, fresh cadaveric specimens

Figure 14: Bone Structure vs. Instron Biomechanical Fracture Load

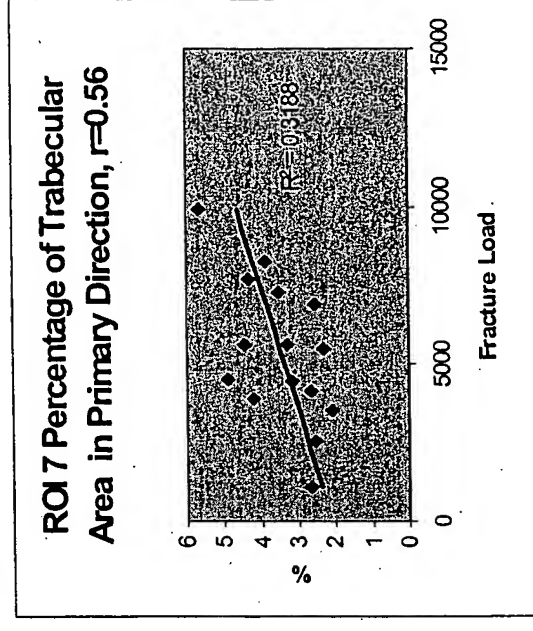
A



B



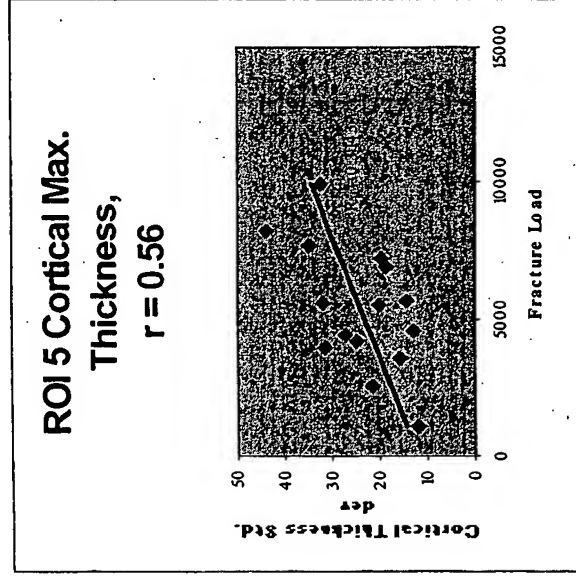
C



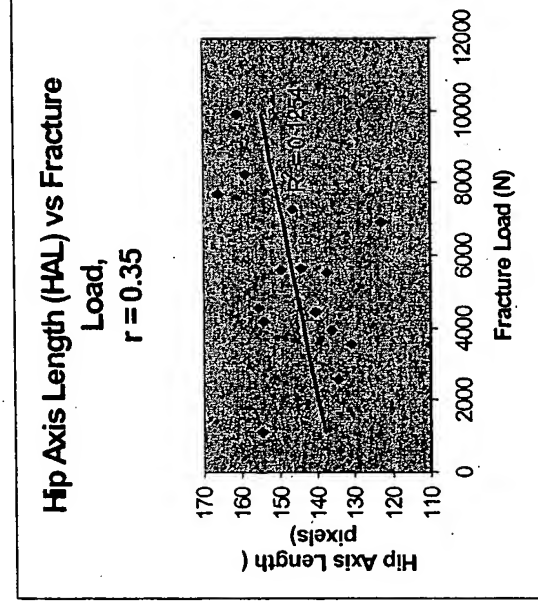
n=15, fresh cadaveric specimens

Figure 15: Macro-Anatomical Features vs. Instron Biomechanical Fracture Load

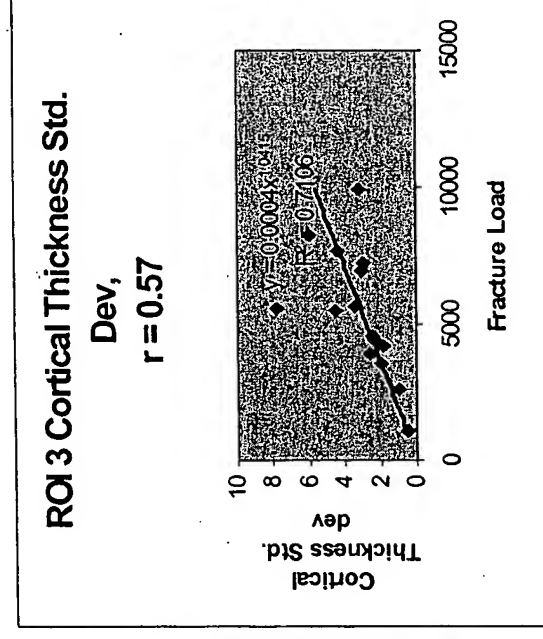
A



B

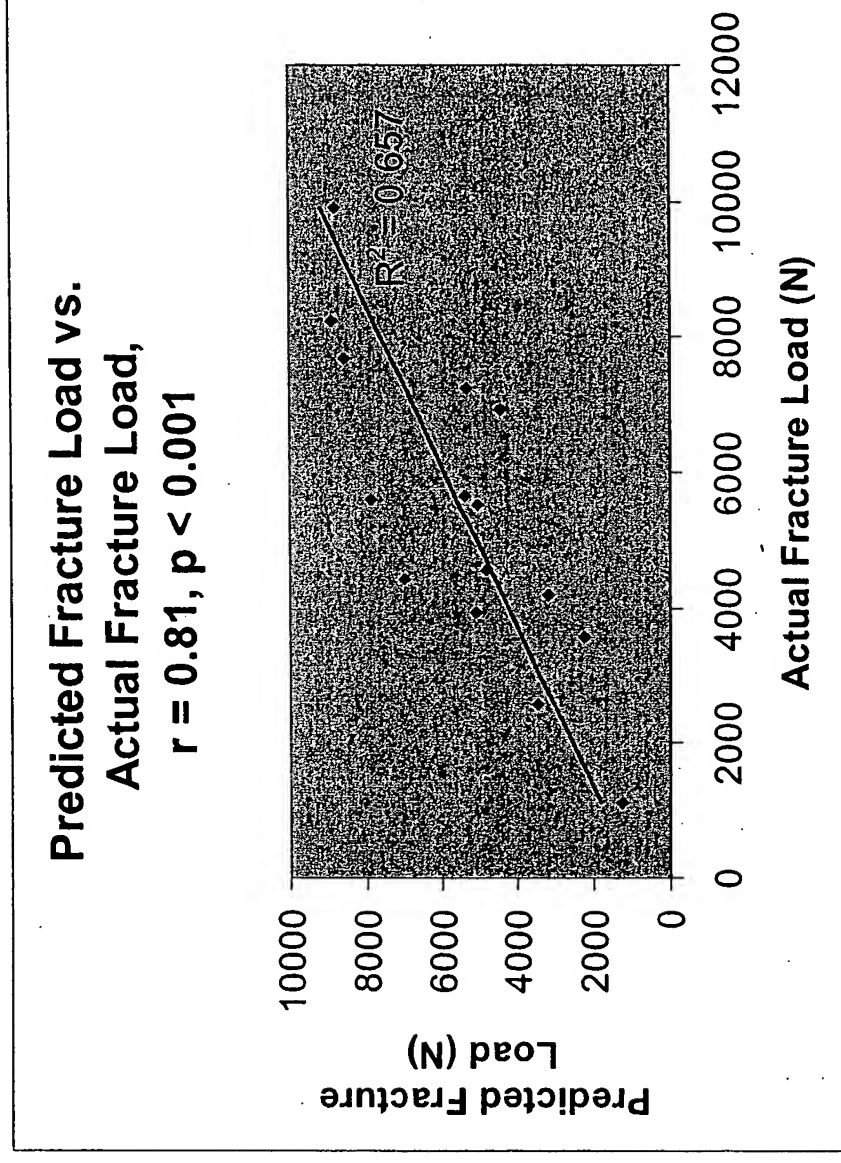


C



n=15, fresh cadaveric specimens

Figure 16: Multivariate Analysis: Combination of Bone Structural and Macro-Anatomical Features



n=15, fresh cadaveric specimens